TABLE 76

Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FYs 2019–20

(Dollars in thousands)

Field	2019	2020 (preliminary)
All fields	13,077,676.4	14,014,190.
Computer sciences and mathematics	385,120.2	425,269.
Computer sciences	341,579.0	N
Mathematics	28,648.7	N
Other computer sciences and mathematics	14,892.5	N
Engineering	1,348,776.6	1,533,014.
Aeronautical engineering	86,422.3	N
Astronautical engineering	12,068.8	N
Chemical engineering	28,374.6	NA
Civil engineering	1,959.7	N
Electrical engineering	80,860.5	N
Mechanical engineering	39,352.4	N/
Metallurgy and materials engineering	70,010.8	N
Other engineering	1,029,727.6	N
Environmental sciences	209,933.0	212,312.
Atmospheric sciences	5,144.7	N
Geological sciences	283.6	N
Oceanography	36,515.0	N
Other environmental sciences	167,989.7	N
Life sciences	9,545,271.6	10,123,344.7
Agricultural sciences	254,024.9	N
Biological sciences (excluding environmental biology)	4,936,824.6	N
Environmental biology	102,092.1	N
Medical sciences	3,225,633.1	N
Other life sciences	1,026,697.0	N
Physical sciences	118,031.4	195,839.
Astronomy	1,063.1	N
Chemistry	66,439.3	NA
Physics	30,645.8	N
Other physical sciences	19,883.3	NA
Psychology	759,370.2	802,608.
Biological aspects	0.0	N
Social aspects	3,565.7	N
Other psychological sciences	755,804.5	N
Social sciences	115,801.9	127,668.
Anthropology	36.1	N
Economics	45,838.8	N
Political science	0.0	N
Sociology	15,050.5	N/
Other social sciences	54,876.4	N
Other sciences nec	595,371.3	594,133.9

NA = not available; data were not collected at that level for that fiscal year.

nec = not elsewhere classified.

Note(s)

Because of rounding, detail may not add to total. Seven agencies are required to report data for this section of the survey: the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation. Applied research obligations of these seven agencies represented more than 95% of total federal applied research obligations to universities and colleges in FYs 2019–20. FY 2020 preliminary data do not include obligations from supplemental COVID-19 related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act).

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Source(s):
National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2019–20.